PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new traffic control signal at the intersection of Old National Pike and Boyers Mill Road in Frederick County, Maryland.
Old National Pike is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA three (3) phase, full-traffic-actuated mode. The Old National Pike movements shall operate concurrently. The Boyers Mill Road movement shall operate alone.

An eight phase, full-traffic-actuated, solid state digital controller with intersection monitor and harness, battery back-up, and (1) four-channel rack mounted time delay output loop detector amplifier housed in a pole mounted cabinet are to be installed at this location.

EQUIPMENT LIST

A. Approved S.H.A. equipment to be supplied by the MD-SHA and installed by the Contractor.

Units

NONE

B. Equipment to be furnished and/or installed by the Contractor.

All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Description

Maintenance of traffic per assignment. 1 CY Test pit excavation. 5 in. white HAPPTPM. 24 in. white HAPPTPM. Pavement marking arrow HAPPTPM. Remove existing pavement markings. Concrete for signal foundations. Clean, cut, galvanize, and cap traffic signal structure. Install micro-loop probe set with 1000 ft. lead-in. Install controller and cabinet - pole mount. Sawcut for signalloop detector. 1 in. liquid tight flexible non-metalic conduit - sleeve. 2 in. [Schedule 80] PVC electrical conduit- trenched. 2 in. [Schedule 80] PVC electrical conduit- bored. 25 LF 4 in [Schedule 80] PVC electrical conduit - trenched. 4 in. [Schedule 80] PVC electrical conduit - bored. Electrical handhole. Ground rod (3/4 in. x 10 ft. length). Loop detector wire encased in flexible tubing (No. 14 AWG). 250 Electrical cable - 2-conductor (aluminum shielded). Electrical cable - 5-conductor (No. 14 AWG) Electrical cable - 7-conductor (No. 14 AWG). 8046 Electrical cable - 2 conductor (No. 12 AWG) Type in TC in. Stranded bare copper ground wire (No. 6 AWG). 8049 Electrical cable - 1 conductor (No. 4 AWG) - THHN/THWN Wood sign supports 4 in. x 6 in. 8052 44.5 Install ground mounted sign. 8053 Install overhead sign. 8055 Luminarie - 250 watt HPS with photocell. 8056 1 EA 15 ft. lighting arm. 8066 Control and distribution equipment (120/240, 1 phase, 3 wire). 8080 27 ft. mast arm pole and twin 50 ft. mast arms. 12 in. black faced vehicular traffic signal head section. Pole mounted Cabinet (Size 5) with intersection monitor, ASC 11 Controller w/telementry, and one 4 channel rack mounted loop detector. 59.5 Flat sheet aluminum sign - yellow, orange, or silver. 1 each - 30 in. x 36 in. R 3-5(R) sign - mast arm. 1 each - 30 in. x 36 in. R 3-5(L) sign - mast arm. 2 each - 48 in. x 48 in. W 3-3 sign - ground. 2 each - 30 in. x 30 in. D 95-25 "NEW" Panel - ground. Flat sheet aluminum sign - blue or green. 1 each - 16 in. x Var. D-3(1) (dual-faced) sign - under mast arm. 1 each - 16 in. x Var. D-3(1) sign - mast arm.

Remove existing sign and post.

2 EA

C. All equipment and/or material removed and not listed above shall become

the property of the Contractor.

CONTACT LIST

The contact persons for District *7 are as follows:

Neil C. Spiller Frederick County Traffic Engineering 301-696-2930

Mr. John Concannon Assistant District Engineer - Traffic 301-624-8140

Mr. Jim Buckalew Assistant District Engineer - Utility 301-624-8115

Mr. Dave Coyne Assistant District Engineer - Maintenance 301-624-8105

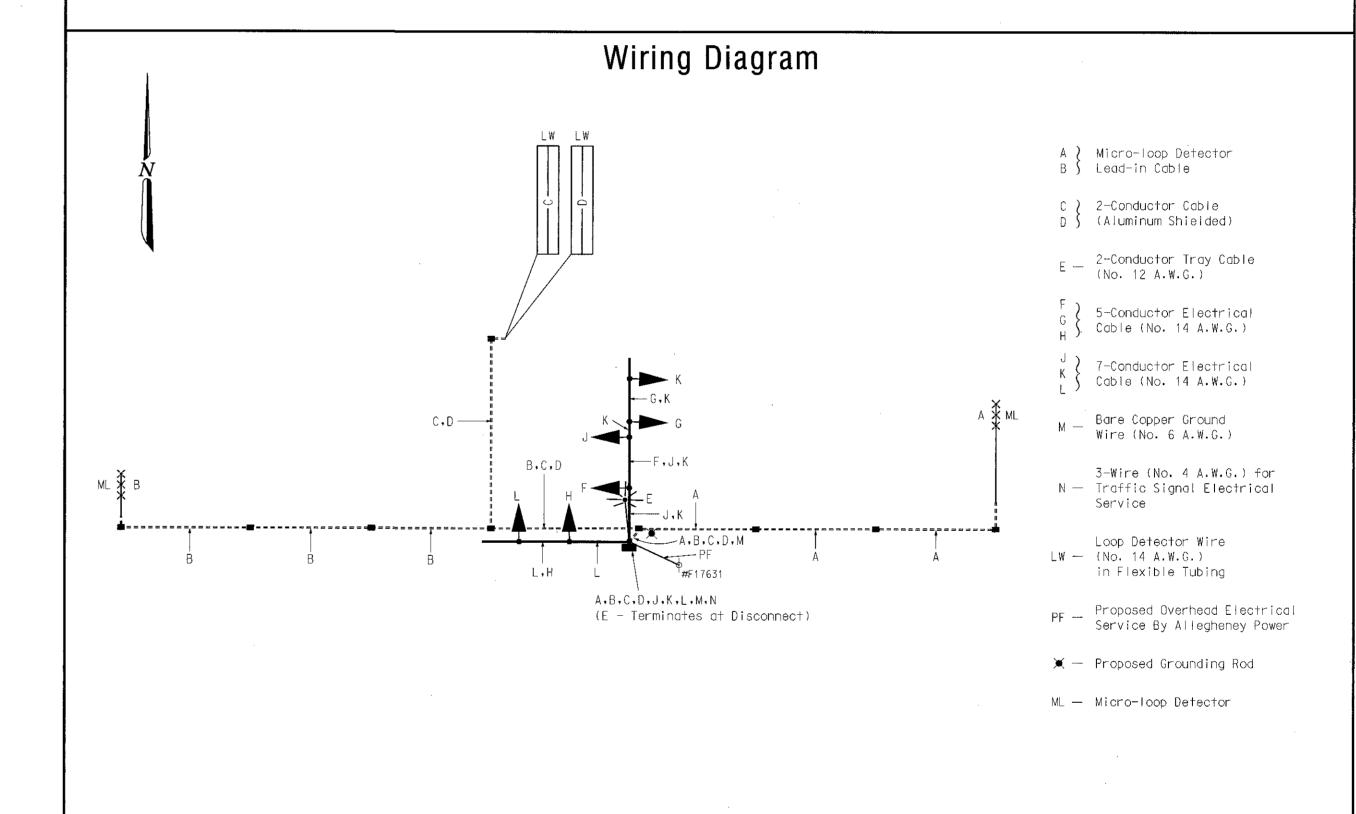
Mr. Richard L. Daff Chief, Traffic Operations Division 410-787-7630

The Power Company Representative is: Allegheny Power Company 421 E. Patrick Street Frederick, Maryland 21701 1-800-255-3443

Phase Chart

1 2 3 4 5 (R) (R) (R) (R) (R) (Y) (Y) (Y) (Y) (Y) (G) (G) (G) (G)

Phase 2 & 6	G	G	G	G	R	R	
2 & 6 Change	Υ	Υ	Υ	Υ	R	R	←—
Phase 4	R	R	R	R	G	G	
4 Change	R	R	R	R	Υ	Y	↓
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	+





Fax 410-931-6601



Old National Pike at Boyers Mill Road

Frederick

10014400.00

SHEET NO.

T.I.M.S. NO.

F086

Traffic Group, Inc.

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F. A.P. NO. N/A

S.H.A. NO. B. 4170

S. S.H.A. NO. B. 4170

S.H.A. NO. B. 4170

S.H.A. NO. B. 4170

COUNTY:

OG MILE:

N/A

March 28, 2002

SCALE: